

CLAIMS

What is claimed is:

1. A magnetic thick film composition comprising particles of permanent magnetic materials comprising Nd-Fe-B system materials,
5 dispersed in organic medium wherein the medium comprises a polymer selected from polyurethane, phenoxy and mixtures thereof, and organic solvent.
2. The composition of Claim 1 wherein said particles of permanent magnetic materials further comprise other rare earth metals
10 that contribute to the magnetic properties selected from Pr, Sm, Eu, Gd, and mixtures thereof.
3. The composition as in any one of Claims 1 or 2 wherein said particles of permanent magnetic materials further comprise other transition metals selected from Cr, Ni, Co, Mn, and mixtures thereof.
- 15 4. The composition of any one of Claims 1-3 wherein the magnetic particles are found in the composition in the range of 50-91% by weight based on total composition.
5. The composition of any one of Claims 1-3 wherein the organic medium is found in the composition in the range of 9-50% by weight based
20 on total composition.
6. The composition of any one of Claims 1-3 which is of paste consistency suitable for screen-printing.
7. The composition of any one of Claims 1-3 disposed on a substrate wherein the composition is processed to at least substantially
25 remove the organic solvent.
8. The composition of Claim 6 wherein the composition is applied to a substrate by a disposing means.
9. The composition of Claim 8 wherein the disposing means is selected from screen-printing, spraying, doctor blading, brushing and
30 dipping.